

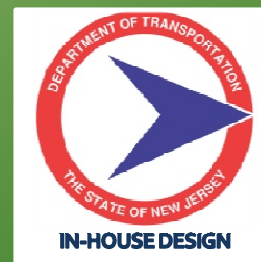
ROUTE 21 SB VIADUCT AND CHESTER AVENUE BRIDGE

**CITY OF NEWARK
ESSEX COUNTY, NEW JERSEY**

**BRIDGE REHABILITATION, SUPERSTRUCTURE REPLACEMENT, AND
PAVEMENT RECONSTRUCTION**



**Pre-Bid Presentation
May 17, 2013**



HNTB

UTILITIES	
PUBLIC SERVICE ELECTRIC & GAS (ELECTRIC)	
VERIZON-NEW JERSEY, INC. (TELEPHONE)	
VERIZON BUSINESS (MCI COMMUNICATIONS) (TELEPHONE)	
AT&T COMMUNICATIONS (TELECOMMUNICATIONS)	
PUBLIC SERVICE ELECTRIC & GAS (GAS)	
CITY OF NEWARK (WATER AND SANITARY SEWER)	
PASSAIC VALLEY SEWER COMMISSION (SANITARY SEWER MAIN)	
NORFOLK SOUTHERN CORPORATION (N.S.R.R.)	



State of New Jersey Department of Transportation



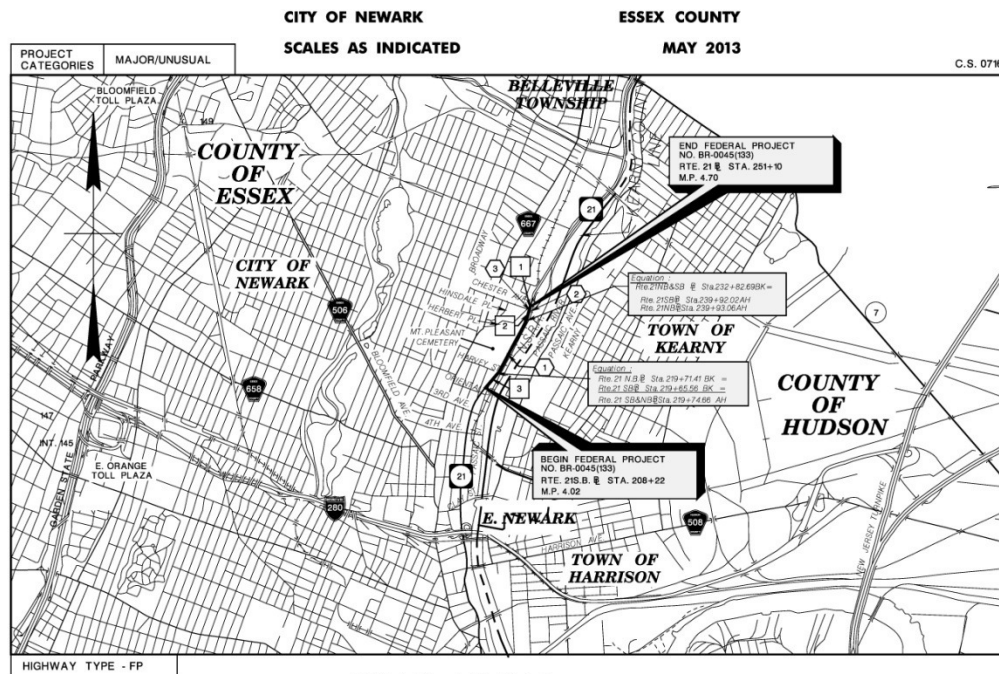
PLANS OF ROUTE 21 SB VIADUCT AND CHESTER AVENUE BRIDGE CONTRACT NO. 004950250

BRIDGE REHABILITATION, SUPERSTRUCTURE REPLACEMENT, AND PAVEMENT RECONSTRUCTION

BRIDGES IN THIS CONTRACT		
NO.	DESCRIPTION	STRUCTURE #
1	RTE.21 SOUTHBOUND OVER RTE.21 NORTHBOUND	0716-150
2	RTE.21 NORTHBOUND OVER CHESTER AVENUE	0716-151
3	RTE.21 SOUTHBOUND OVER CHESTER AVENUE	0716-152

WALLS IN THIS CONTRACT	
NO.	DESCRIPTION
1	RETAINING WALL NO. 1
2	RETAINING WALL NO. 2
3	RETAINING WALL NO. 3

DESIGN TRAFFIC DATA	
A.D.T. (2010) - 2 WAY	= 53,900 VPD
A.D.T. (2030) - 2 WAY	= 60,300 VPD
D.H.V. (2030) - 2 WAY	= 5,500 VPH
D	= 56 %
T	= 12 %
V	= 50 M.P.H.



KEY MAP

TOTAL LENGTH OF THE PROJECT = 3570 LIN. FT. OR 0.68 MILES
TOTAL LENGTH OF FEDERAL PROJECT NO. BR-0045(133) = 3570 LIN. FT. OR 0.68 MILES

2007 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	KEY
2-3	ESTIMATE - DISTRIBUTION OF QUANTITIES
4-9	TYPICAL SECTIONS
10-15	CONSTRUCTION PLANS
16-19	UTILITY CONSTRUCTION PLANS
20	ENVIRONMENTAL PLAN
21-23	PROFILES
24-27	TIES
28-30	GRADES
31-61	TRAFFIC CONTROL AND STAGING PLANS
62-69	HIGHWAY LIGHTING PLANS
70-72	HIGHWAY LIGHTING DETAILS
73	ITS PLANS
74-79	ITS DETAILS
80-81	TRAFFIC STRIPING AND SIGNING PLANS
82-96	CONSTRUCTION DETAILS
97	KEY PLAN STRUCTURE
98	ESTIMATE OF QUANTITIES - BRIDGE
99-219	BRIDGE PLANS

STANDARD ROADWAY CONSTRUCTION - TRAFFIC CONTROL - BRIDGE CONSTRUCTION DETAILS BOOKLET, 2007, AND STANDARD ELECTRICAL DETAILS BOOKLET, 2007, ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

MID-POINT OF PROJECT
LONGITUDE : 74° 09' 42.88" W
LATITUDE : 40° 45' 49.02" N

Submitted by _____
Director, Division of Project Management Date _____
Approved by _____
State Transportation Engineer Date _____



Construction - Summer 2013 through Winter 2016

SCOPE OF WORK

Roadway

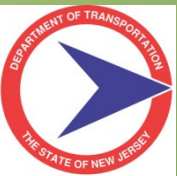
- Northbound Pavement Reconstruction
- Inlet and Manhole Reconstruction
- Safety – Guide Rail
- Highway Lighting
- Pavement – Mill and Pave

Mount Pleasant Cemetery

- Caution Fence
- Trimming
- Landscape Planting

Norfolk Southern Railroad

- Construction Access
- Siding Work by RR
- Fiber Optic Line



STRUCTURES

Viaduct

Rehabilitation of Deck and Parapet

Drainage System Replacement

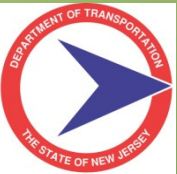
Bearing Replacement

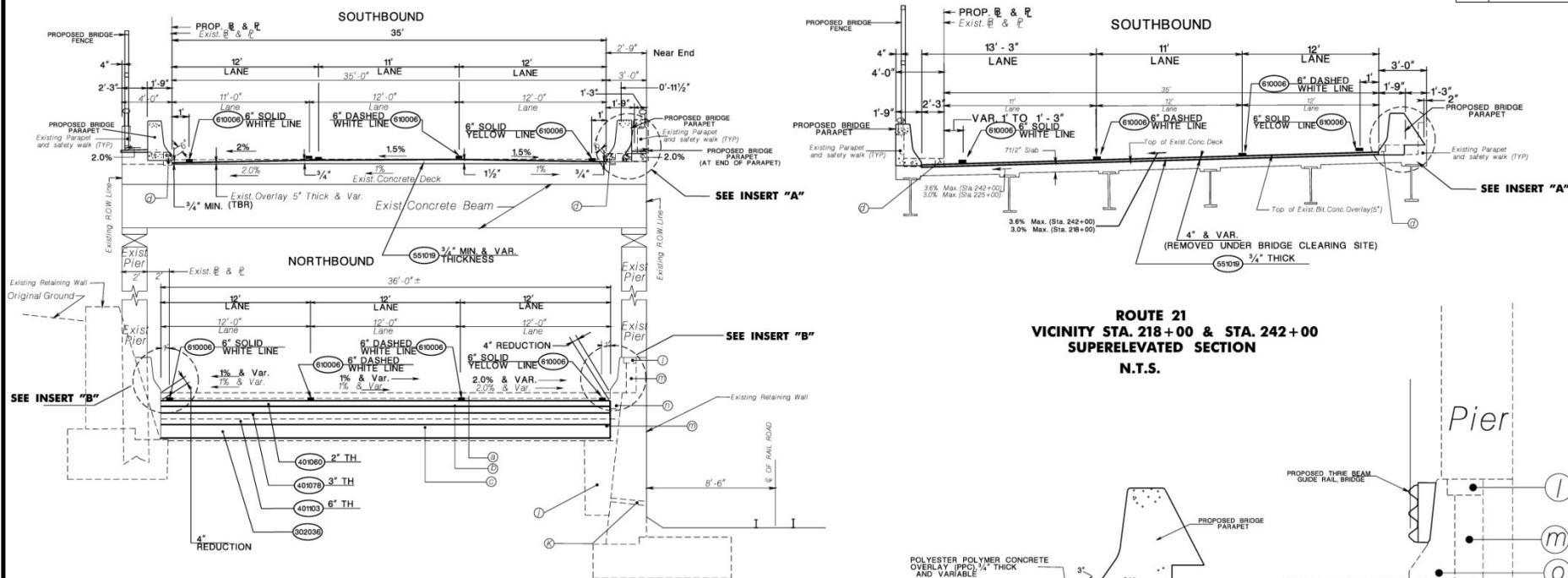
Beam Repair and Tub Girder Installation

Retaining Wall – Ground Anchors

Bridges Over Chester Avenue

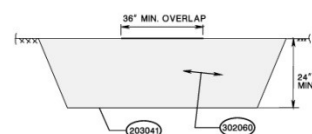
Superstructure Replacement



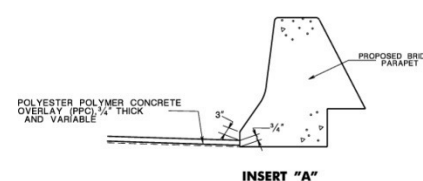


**ROUTE 21
NORMAL SECTION
VICINITY STA. 228+00
N.T.S.**

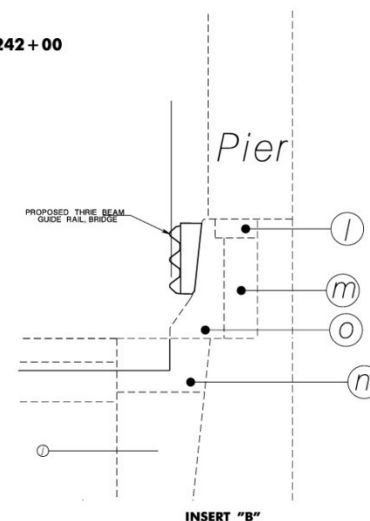
**ROUTE 21
VICINITY STA. 218+00 & STA. 242+00
SUPERELEVATED SECTION
N.T.S.**



**CONSTRUCTION DETAIL FOR THE UNDERCUT STABILIZATION
N.T.S.**



INSERT "A"



INSERT "B"

Item No.	Existing Materials
a	Pavement Type MA-8C-2, 3" Thick
b	Macadam Base Course, 8" Thick
c	Subbase, 12" Thick
d	6" x 12" White Concrete Vertical Curb
e	6" x 20" White Concrete Vertical Curb
f	15" x 4" White Concrete Barrier Curb
g	Concrete Sidewalk, 4" Thick
h	Beam Guide Rail
i	Topsoil, 4" Thick
j	Porosity Fill
k	4" Vitreous China Pipe
l	White Concrete Island Pav't, 4" Thick
m	Borrow Excavation Zone 3
n	Concrete Base Course, 8" Thick
o	White Concrete Barrier Curb - Viaduct

Item No.	PROPOSED MATERIALS
20304P	GEOTEXTILE ROADWAY STABILIZATION
30203MP	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK
30206OP	COARSE AGGREGATE, SIZE NO. 57
40106OM	HMA 12.5M76 SURFACE COURSE
40107BM	HMA 12.5M76 INTERMEDIATE COURSE
40103M	HMA 25M76 BASE COURSE
551019M	POLYESTER CONCRETE OVERLAY 3/4" MIN THICK
606075P	CONCRETE ISLAND, 4" THICK
60701BP	6" x 18" CONCRETE VERTICAL CURB
60702BP	21" x 44" CONCRETE BARRIER CURB
608003P	NONVEGETATIVE SURFACE, HOT MIX ASPHALT
609003M	THREE BEAM GUIDE RAIL, BRIDGE
609021M	RUB RAIL
610006M	TRAFFIC STRIPES, LONG LIFE, EPOXY RESIN 6"

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ROUTE 21
CONTRACT NO. 004950250



TYPICAL SECTION - VIADUCT

STAGE CONSTRUCTION

Northbound Pavement Reconstruction Stage A & B

Pre-Stage Preliminary Structural Work

Stage 1A Right/Left Side Work Area

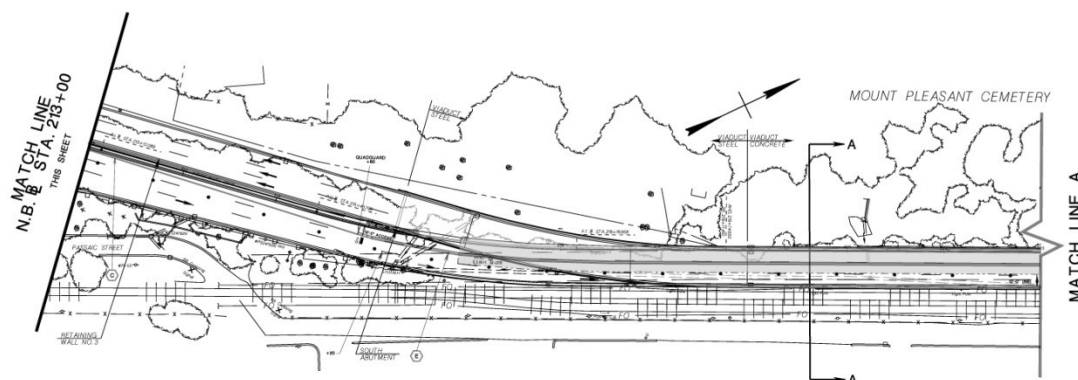
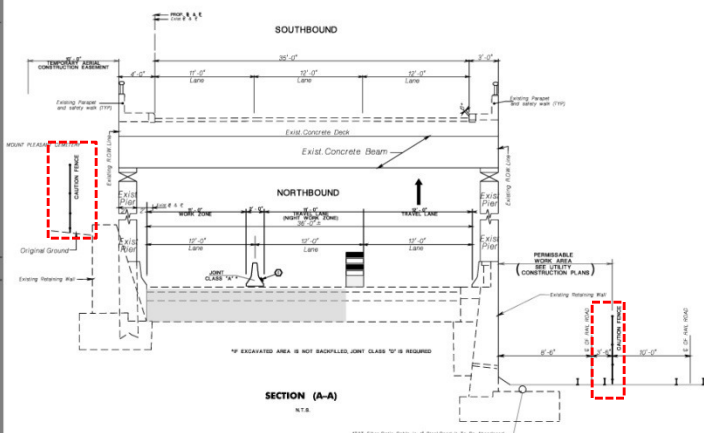
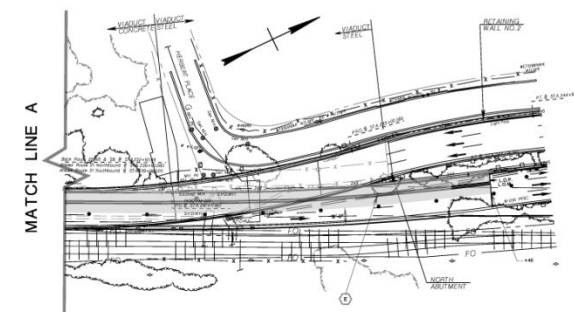
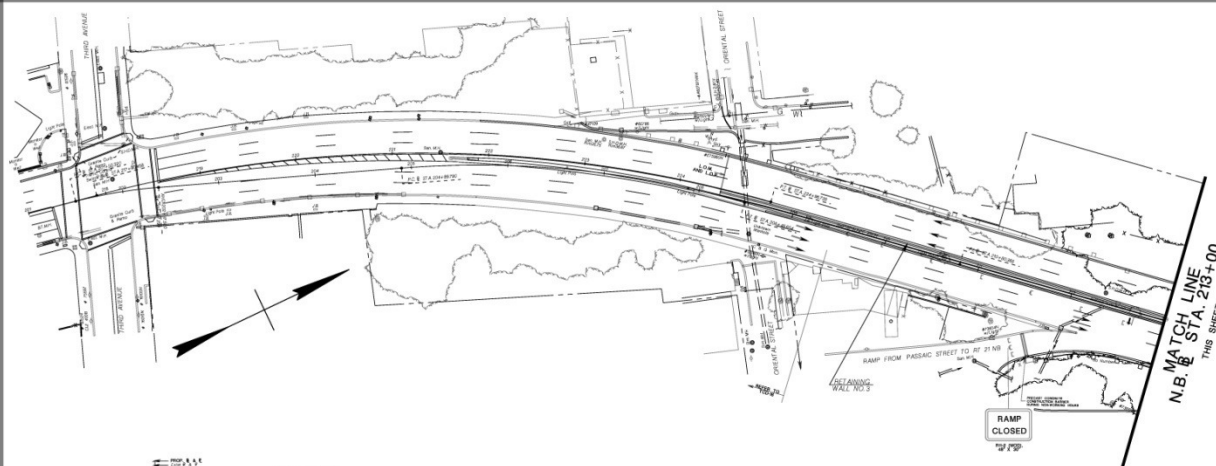
Stage 1B Right/Left Side Work Area

Stage 2 Center Lane Work Area

Stage 3 Right/Left Side Work Area

Stage 4 Final Roadway Work





NB RECONSTRUCTION STAGE A

1. A. INSTALL CCTV CAMERA ON RT 21NB TO PROVIDE TRAFFIC INFORMATION PRIOR TO ROAD CLOSURES. SEE PLAN SHEET ITS-1.
2. B. INSTALL TEMPORARY STRIPING AND TRAFFIC CONTROL DEVICES. REMOVE CONFLICTING STRIPING.
3. C. IMPLEMENT RT 21NB ALTERNATE ROUTE IN ACCORDANCE WITH ALLOWABLE LANE CLOSURE HOURS.
4. CLOSE LEFT LANE ON RT 21NB UTILIZING TCD-15.
5. INSTALL TEMPORARY CONSTRUCTION BARRIER AS SHOWN.
6. BEFORE NIGHT WORK, CLOSE LEFT & CENTER LANE ON RT 21NB UTILIZING TCD-16 IN ACCORDANCE WITH THE ALLOWABLE LANE CLOSURE HOURS.
7. EXCAVATE 21" OF EXISTING ROADWAY.
8. RESET UTILITY AND DRAINAGE MANHOLES TO LOWER FINISHED GRADE.
9. RECONSTRUCT TYPE B INLETS TO PROPOSED TYPICAL SECTIONS.
10. CLEAN INLETS AND PIPES WHERE DENOTED.
11. REMOVE ALTERNATE PATH AND OPEN NEWLY CONSTRUCTED PAVEMENT TO TRAFFIC.

LEGEND

- | | |
|-------------------------------------|--------------------------------|
| (A) | TEMPORARY 4" SOLID WHITE LINE |
| (B) | TEMPORARY 4" DASHED WHITE LINE |
| (C) | TEMPORARY 4" SOLID YELLOW LINE |
| (D) | TEMPORARY 6" SOLID WHITE LINE |
| (E) | TEMPORARY 6" SOLID YELLOW LINE |
| WORK AREA | |
| BREAKAWAY BARRICADES | |
| QUADGUARD & BAYS, 20' NOMINAL WIDTH | |

- | | |
|--|--|
| CONSTRUCTION BARRIER CURB | |
| BREAKAWAY BARRICADES WITH SIGN | |
| CONSTRUCTION SIGNS | |
| DRUMS | |
| DIRECTION OF TRAFFIC FLOW | |
| TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE | |
| ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both) | |
| LEFT | |
| RIGHT | |
| BOTH | |

- | | |
|--|--|
| TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE | |
| TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both) | |
| LEFT | |
| RIGHT | |
| BOTH | |

RT 21 NB PAVEMENT RECONSTRUCTION STAGE A

N.T.S.

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 21

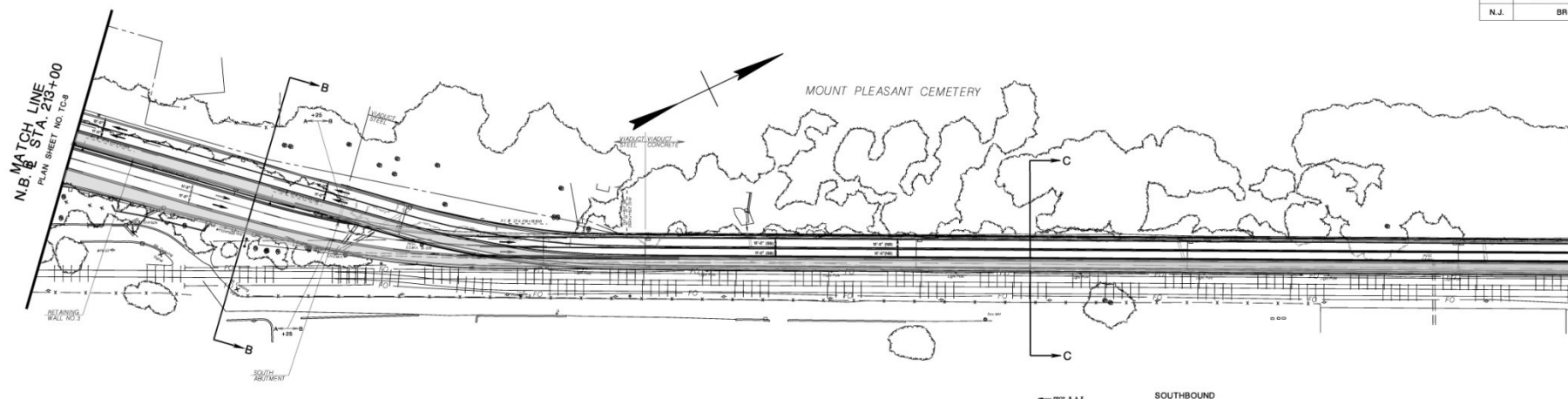
CONTRACT NO. 004950250

TC-6
TC-31

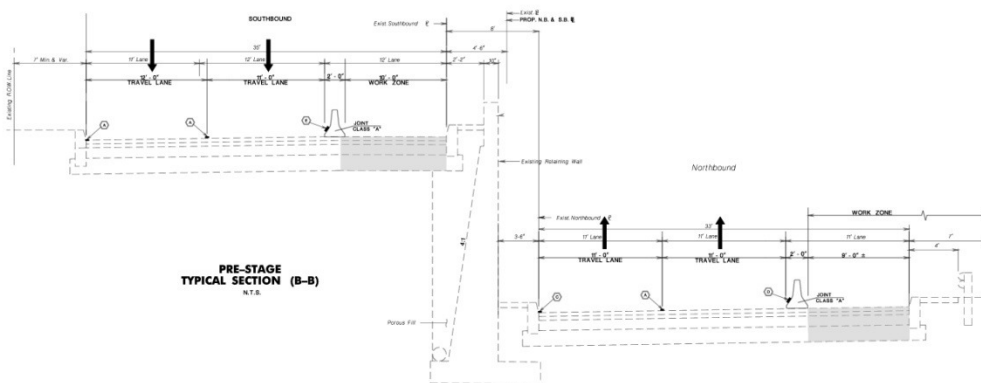
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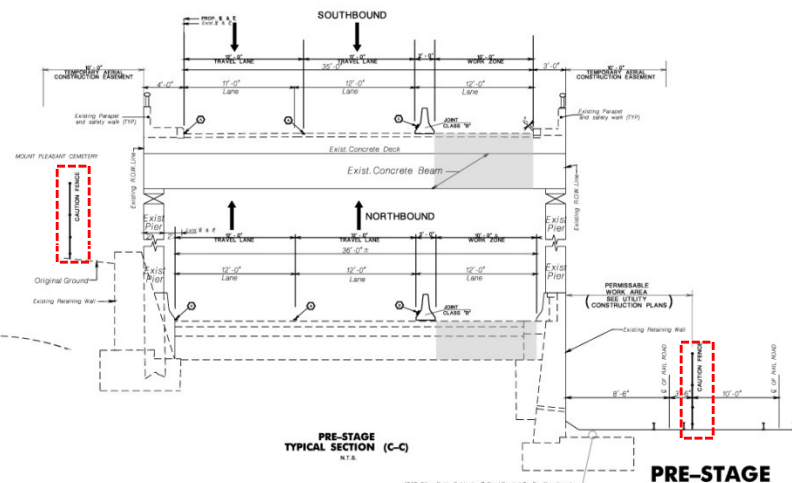
NB PAVEMENT RECONSTRUCTION



MATCH LINE
N.B. STA. 231+00
PLAN SHEET NO. TC-9



PRE-STAGE
TYPICAL SECTION (B-B)
N.T.S.



PRE-STAGE
TYPICAL SECTION (C-C)
N.T.S.

PRE-STAGE
VIADUCT
N.T.S.

PRE-STAGE

1. INSTALL TEMPORARY STRIPING AND TRAFFIC CONTROL DEVICES.
REMOVE CONFLICTING STRIPING.
2. INSTALL TEMPORARY CONSTRUCTION BARRIER AS SHOWN.
3. CLOSE RIGHT LANE ON RT 21NB UTILIZING TCD-14. CLOSE LEFT LANE ON RT 21SB UTILIZING TCD-15.
CLOSE ADDITIONAL LANES IF NEEDED IN ACCORDANCE WITH ALLOWABLE LANE CLOSURE HOURS SCHEDULE.
4. VIADUCT NORTHBOUND:
A. CONSTRUCT TEMPORARY SUPPORT PEDESTALS, ERECT TEMPORARY SUPPORTS, JACK GIRDERS, RECONSTRUCT PIER SHAFTS, REPLACE BEARINGS AT PIERS 2, 3, 41 & 42; CONSTRUCT DOWNSPOUT PIPING AT EAST SIDE PIER SHAFTS; PLACE TEMPORARY SUPPORTS FOR TUB GIRDERS AT EASTERLY PIERS (3 - 41)
B. REMOVE TEMPORARY SUPPORTS AT PIERS 2, 3, 41 & 42
5. VIADUCT SOUTHBOUND:
A. STITCH SLAB AND PRESSURE INJECT CRACKS AT EASTERLY FASCIA
B. CONSTRUCT NEW DRAINAGE SCUPPERS ALONG EASTERLY CURB LINE
6. ROADWAY NORTHBOUND:
A. CONSTRUCT ELECTRICAL AND I.T.S. FACILITIES IN ROADWAY AND BORDER AREA.

LEGEND

- ① TEMPORARY 4" SOLID WHITE LINE
- ② TEMPORARY 4" DASHED WHITE LINE
- ③ TEMPORARY 4" SOLID YELLOW LINE
- ④ TEMPORARY 6" SOLID WHITE LINE
- ⑤ TEMPORARY 6" SOLID YELLOW LINE
- WORK AREA
- BREAKAWAY BARRICADES
- QUADGUARD 8 BAYS, 2'0" NOMINAL WIDTH

- A B CONSTRUCTION BARRIER JOINT CLASS
- CONSTRUCTION BARRIER CURB
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- DIRECTION OF TRAFFIC FLOW
- TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
- LEFT RIGHT BOTH

- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
- LEFT RIGHT BOTH

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 21

CONTRACT NO. 004950250

TC-8
TC-31

39



PRE-STAGE

TRAFFIC CONTROL

Allowable Lane Closure Hours

Viaduct

Northbound Alternate Route

Northbound Detour/Closure

Southbound 15-Minute Closures

Bridges Over Chester Avenue

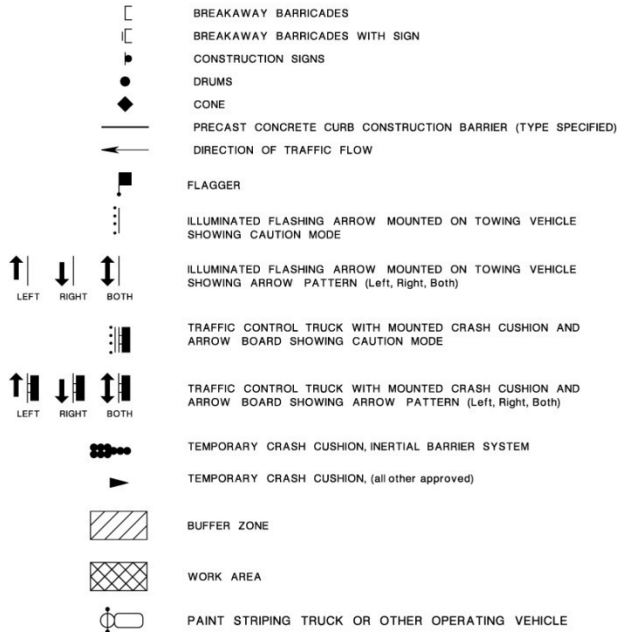
**Route 21 Southbound Ramp
to Chester Avenue Detour**

**Route 21 Southbound and Northbound
15-Minute Closures**

**Chester Avenue 15-Minute Closures
(Under Route 21)**



LEGEND



GENERAL NOTES:

THE CONTRACTOR SHALL REFER TO TCD-1 OF THE STANDARD ROADWAY CONSTRUCTION - TRAFFIC CONTROL - BRIDGE CONSTRUCTION DETAILS BOOKLET 2007 AND SUBSEQUENT REVISIONS ISSUED PURSUANT TO BDC06D-01, BDC06D-03, AND BDC02D-04 FOR GENERAL NOTES APPLICABLE TO THIS PROJECT.

THE PROPOSED WORK MUST BE COORDINATED WITH ANY OTHER PROJECTS THAT MAY BE UNDERWAY AT THE SAME TIME NEAR THE PROJECT AREA.

LOCATION AND MESSAGE OF VARIABLE MESSAGE SIGNS (VMS) TO BE DETERMINED BY TRAFFIC OPERATIONS-NORTH.

ANY ADDITIONAL VMS'S TO BE INSTALLED IN THIS CONTRACT SHALL BE ON AN IF AND WHERE DIRECTED BASIS AS DETERMINED BY TRAFFIC OPERATIONS-NORTH.

TEMPORARY PAVEMENT MARKING TAPE

WHENEVER TEMPORARY STRIPING IS TO BE PLACED ON CONSTRUCTION BARRIER (ALL STAGES), TEMPORARY PAVEMENT MARKING TAPE WILL BE UTILIZED.

PROJECT SPECIFIC NOTES:

RT. 21 NB (THREE TRAVEL LANES)

TWO LANES MAINTAINED (ONE LANE CLOSED)

MONDAY THROUGH THURSDAY 6:00 AM TO 10:00 PM
FRIDAY 6:00 AM TO 10:00 PM
SATURDAY 8:00 AM TO 10:00 PM
SUNDAY 8:00 AM TO 10:00 PM

ONE LANE MAINTAINED (TWO LANES CLOSED)

MONDAY THROUGH THURSDAY 10:00 PM TO 6:00 AM (NEXT DAY)
FRIDAY 10:00 PM TO 8:00 AM (SATURDAY)
SATURDAY 10:00 PM TO 8:00 AM (SUNDAY)
SUNDAY 10:00 PM TO 6:00 AM (MONDAY)

RT. 21 SB (THREE TRAVEL LANES)

TWO LANES MAINTAINED (ONE LANE CLOSED)

MONDAY THROUGH THURSDAY 5:00 AM TO 10:00 PM
FRIDAY 5:00 AM TO 10:00 PM
SATURDAY 7:00 AM TO 10:00 PM
SUNDAY 8:00 AM TO 10:00 PM

ONE LANE MAINTAINED (TWO LANES CLOSED)

MONDAY THROUGH THURSDAY 10:00 PM TO 5:00 AM (NEXT DAY)
FRIDAY 10:00 PM TO 7:00 AM (SATURDAY)
SATURDAY 10:00 PM TO 8:00 AM (SUNDAY)
SUNDAY 10:00 PM TO 5:00 AM (MONDAY)

WHEN THERE IS AN EVENT AT THE PRUDENTIAL CENTER, NEW JERSEY PERFORMING ARTS CENTER, OR RED BULL ARENA, ROUTE 21 MAY NOT BE CLOSED OR REDUCED TO SINGLE LANE TRAFFIC FROM TWO (2) HOURS BEFORE THE EVENT UNTIL ONE (1) HOUR AFTER THE END OF THE EVENT.

WHEN THERE IS AN EVENT AT METLIFE STADIUM, ROUTE 21 MAY NOT BE CLOSED OR REDUCED TO SINGLE LANE TRAFFIC FROM FOUR (4) HOURS BEFORE THE EVENT UNTIL TWO (2) HOURS AFTER THE END OF THE EVENT.

FROM TEN (10) DAYS BEFORE THE SUPER BOWL GAME UNTIL TWO (2) DAYS FOLLOWING, ROUTE 21 MAY NOT BE CLOSED OR REDUCED TO SINGLE LANE TRAFFIC.

FROM ONE (1) WEEK BEFORE A FORMULA ONE RACE UNTIL TWO (2) DAYS FOLLOWING, ROUTE 21 MAY NOT BE CLOSED OR REDUCED TO SINGLE LANE TRAFFIC.

ADVANCE NOTICE SHALL BE GIVEN TO THE CITY OF NEWARK MANAGER OF DIVISION OF TRAFFIC AND SIGNALS TWO (2) WEEKS PRIOR TO ANY ALTERNATE ROUTE, DETOUR OR ROAD CLOSURE BEING IMPLEMENTED.

CONTACT INFORMATION:
JACK NATA
(973) 733-3985
NATAJ@CI.NEWMARK.NJ.US

ROUTE 21 NB ALTERNATE ROUTE

A. UNLESS APPROVED BY THE RE, ROUTE 21 NB WILL REMAIN OPEN TO TWO (2) LANE TRAFFIC EXCEPT DURING THE FOLLOWING OPERATION:
PAVEMENT RECONSTRUCTION OF ROUTE 21 NB

B. MOTORISTS WILL BE PROVIDED TWO (2) WEEKS NOTICE OF THE ROUTE 21 NB ALTERNATE ROUTE VIA SIGN A.

C. THE ALLOWABLE ONE (1) LANE TRAFFIC HOURS FOR ROUTE 21 NB PAVEMENT RECONSTRUCTION ARE:
MONDAY - THURSDAY 8:00 PM TO 6:00 AM (NEXT DAY)
FRIDAY 8:00 PM - MONDAY 6:00 AM

ROUTE 21 NB DETOUR

A. UNLESS APPROVED BY THE RE, ROUTE 21 NB WILL REMAIN OPEN TO TRAFFIC EXCEPT DURING THE FOLLOWING OPERATION:
STRUCTURAL WORK UNDER VIADUCT (ERECTION OF TUB GIRDERS, INSTALLATION OF TRANSVERSE AND VERTICAL DRAINAGE PIPES, REMOVAL OF SCUPPERS)

B. MOTORISTS WILL BE PROVIDED TWO (2) WEEKS NOTICE OF THE ROUTE 21 NB CLOSURE VIA SIGN B.

C. THE ALLOWABLE COMPLETE CLOSURE HOURS FOR ROUTE 21 NB STRUCTURAL WORK UNDER VIADUCT ARE:
MONDAY - THURSDAY 10:00 PM TO 5:00 AM (NEXT DAY)
FRIDAY 10:00 PM - MONDAY 5:00 AM

ROUTE 21 SB CLOSURE (15 MINUTES)

A. UNLESS APPROVED BY THE RE, ROUTE 21 SB WILL REMAIN OPEN TO TRAFFIC EXCEPT DURING THE FOLLOWING OPERATIONS:

1. JACKING OPERATION TO ALLOW INSTALLATION OF NEW BEARINGS
2. LOWERING OF TUB GIRDERS ON NEW BEARINGS

B. THE ALLOWABLE COMPLETE CLOSURE HOURS FOR ROUTE 21 SB ARE:

MONDAY - THURSDAY 10:00 PM TO 5:00 AM (NEXT DAY)
FRIDAY 10:00 PM TO 7:00 AM (SATURDAY)
SATURDAY 10:00 PM TO 8:00 AM (SUNDAY)
SUNDAY 10:00 PM TO 5:00 AM (MONDAY)
AND ARE LIMITED TO A MAXIMUM OF 15 MINUTE DURATIONS

C. STOPPED TRAFFIC SHALL BE ALLOWED TO FLOW FREELY TO THE SATISFACTION OF THE RE BETWEEN SUCCESSIVE 15 MINUTE ROAD CLOSURE PERIODS.

STATE	FEDERAL PROJECT NO.
N.J.	BR-0045(153)

RAMP FROM PASSAIC STREET TO ROUTE 21 NB

UPON APPROVAL BY THE RE, THE RAMP FROM PASSAIC STREET TO ROUTE 21 NB SHALL BE CLOSED FOR THE DURATION OF THE PROJECT.

ROUTE 21 SB RAMP TO CHESTER AVENUE DETOUR

A. UNLESS APPROVED BY THE RE, THE ROUTE 21 SB RAMP TO CHESTER AVENUE SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT DURING THE FOLLOWING:

1. GROUND ANCHOR INSTALLATION FOR RETAINING WALL NO. 1
2. MOTORISTS WILL BE PROVIDED TWO (2) WEEKS NOTICE OF THE CLOSURE OF ROUTE 21 SB RAMP TO CHESTER AVENUE VIA SIGN C.
3. THE ALLOWABLE COMPLETE CLOSURE HOURS FOR ROUTE 21 SB RAMP TO CHESTER AVENUE ARE:
TUESDAY 10:00 PM - MONDAY 5:00 AM

ROUTE 21 NB & SB CLOSURE - VICINITY OF BRIDGES OVER CHESTER AVENUE (15 MINUTES)

A. UNLESS APPROVED BY THE RE, ROUTE 21 NB & SB IN THE VICINITY OF THE BRIDGES OVER CHESTER AVENUE WILL REMAIN OPEN TO TRAFFIC EXCEPT DURING THE FOLLOWING:

1. INSTALLATION OF SHIELDING & DEMOLITION
2. REMOVAL & ERECTION OF GIRDERS
3. MOTORISTS WILL BE PROVIDED TWO (2) WEEKS NOTICE OF THE TEMPORARY CLOSURE OF ROUTE 21 NB VIA SIGN A, AND ROUTE 21 SB VIA SIGN B.
4. THE ALLOWABLE COMPLETE CLOSURE HOURS FOR ROUTE 21 NB & SB IN THE VICINITY OF THE BRIDGES OVER CHESTER AVENUE ARE:
MONDAY - THURSDAY 10:00 PM TO 5:00 AM (NEXT DAY)
AND ARE LIMITED TO A MAXIMUM OF 15 MINUTE DURATIONS
5. STOPPED TRAFFIC SHALL BE ALLOWED TO FLOW FREELY TO THE SATISFACTION OF THE RE BETWEEN SUCCESSIVE 15 MINUTE ROAD CLOSURE PERIODS.

CHESTER AVENUE CLOSURE - UNDER ROUTE 21 NB & SB (15 MINUTES)

A. UNLESS APPROVED BY THE RE, CHESTER AVENUE UNDER ROUTE 21 NB & SB WILL REMAIN OPEN TO TRAFFIC EXCEPT DURING THE FOLLOWING:

1. INSTALLATION OF SHIELDING & DEMOLITION
2. REMOVAL & ERECTION OF GIRDERS
3. MOTORISTS WILL BE PROVIDED TWO (2) WEEKS NOTICE OF THE TEMPORARY CLOSURE OF CHESTER AVENUE VIA SIGN D & SIGN E.
4. THE ALLOWABLE COMPLETE CLOSURE HOURS FOR CHESTER AVENUE UNDER ROUTE 21 NB & SB ARE:
MONDAY - THURSDAY 10:00 PM TO 5:00 AM (NEXT DAY)
AND ARE LIMITED TO A MAXIMUM OF 15 MINUTE DURATIONS
5. STOPPED TRAFFIC SHALL BE ALLOWED TO FLOW FREELY TO THE SATISFACTION OF THE RE BETWEEN SUCCESSIVE 15 MINUTE ROAD CLOSURE PERIODS.

NO LANE CLOSURES WILL BE PERMITTED ON THE FOLLOWING HOLIDAY:

- * JULY 4TH (SEE NOTE)
- * EASTER SUNDAY (INCLUDING 6:00 AM SATURDAY UNTIL NOON MONDAY)
- * MEMORIAL DAY (SEE NOTE)
- * LABOR DAY (SEE NOTE)
- * ELECTION DAY (6:00 AM UNTIL 8:00 PM THE DAY OF)
- * THANKSGIVING DAY (SEE NOTE)
- * CHRISTMAS DAY (SEE NOTE)
- * NEW YEAR'S DAY (SEE NOTE)

NOTE:

IF HOLIDAY FALLS ON	NO LANE CLOSURES PERMITTED
SUNDAY OR MONDAY	8:00 AM FRIDAY UNTIL NOON TUESDAY
TUESDAY	6:00 AM FRIDAY UNTIL NOON WEDNESDAY
WEDNESDAY	6:00 AM TUESDAY UNTIL NOON THURSDAY
THURSDAY	6:00 AM WEDNESDAY UNTIL NOON MONDAY
FRIDAY OR SATURDAY	6:00 AM THURSDAY UNTIL NOON MONDAY

TC-1
TC-31

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 21

CONTRACT NO. 004950250

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Allowable Lane Closure Hours

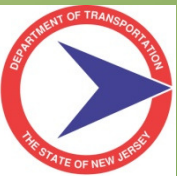
SIGNIFICANT MEASURES

Work Site Constraints (108.04)

Limited Closures (108.10)

Liquidated Damages

**Traffic Control Before, During, and After
Special Events at Local Venues**



SPECIAL PROVISIONS

108.04 WORK SITE AND STORAGE

THE FOLLOWING IS ADDED:

Mount Pleasant Cemetery

The Contractor shall not walk on or place tools, materials, and equipment on Mount Pleasant Cemetery grounds except for the following:

1. Landscape Planting on Cemetery Grounds
2. Construction Fence

The Contractor is advised that a 10' temporary aerial work area over Cemetery grounds and adjacent to the westerly parapet, as shown on the Traffic Control and Staging Plans, is provided to facilitate the following:

1. Clearing of Site Vegetation in Vicinity of Parapet
2. Placement of Scaffolding for Safety Work Area Adjacent to Parapet
3. Removal of Existing Parapet
4. Placement of Proposed Parapet & Fence
5. Viaduct Rehabilitation

The Contractor is advised that a 3.25' construction and maintenance easement area exists beyond the existing Right of Way line which is located at the face of the existing bridge columns and parapet.

Norfolk Southern Railroad

The Contractor is advised that a permissible work area parallel to and adjacent to the east side of the Viaduct on railroad property, as shown on the Utility Construction Plan and the Traffic Control and Staging Plans, is provided to facilitate the Viaduct Rehabilitation Work.

The Contractor is advised that a 10' temporary aerial work area over railroad property is provided to facilitate the following:

1. Placement of Scaffolding for Safety Work Area Adjacent to Parapet
2. Removal of Existing Parapet
3. Placement of Proposed Parapet
4. Viaduct Rehabilitation



SPECIAL PROVISIONS

108.10 CONTRACT TIME

- A. Complete all work required for NB Pavement Reconstruction (Stage A & B) so traffic does not have to be reduced to one lane on Route 21 Northbound corridor for more than three (3) weekends and ten (10) nights.
- B. Complete all work required for Viaduct Structural Work (Installation and Jacking of Tub Girders / Stage 1A & 1B) so traffic does not have to be closed in the NB direction on Route 21 for more than sixteen (16) weekends and sixty (60) nights.
- C. Complete all work required for Viaduct Structural Work (Pier Reconstruction and Bearing Replacement / Stage 1A & 1B) so traffic does not have to be reduced to one lane on Route 21 northbound corridor for more than six (6) weekends and forty (40) nights.
- D. Complete all work required for Ground Anchor Installation for Retaining Walls No. 1 and No. 2 so the Route 21 Southbound Ramp to Chester Avenue and Riverside Avenue does not have to be closed for more than two (2) weekends and six (6) days for each wall.
- E. Complete all work required for Substantial Completion on or before November 4, 2016.
- F. Achieve Completion on or before January 3, 2017.

